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APPLICATION NO.	FILING DA	ATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/769,971	02/02/2004		Benny Madsen	11602.00.0012	9127
23418	7590 0	07/24/2006		EXAMINER	
VEDDER 1	PRICE KAUFM	SIDDIQUI, SA	SIDDIQUI, SAQIB JAVAID		
222 N. LASALLE STREET CHICAGO, IL 60601				ART UNIT	PAPER NUMBER
011101100,	omoneo, 12 ******			2138	
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Please find below and/or attached an Office communication concerning this application or proceeding.

'	Application No.	Applicant(s)			
	10/769,971	MADSEN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Saqib J. Siddiqui	2138			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be time till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 05 Ju	Responsive to communication(s) filed on <u>05</u> June 2006.				
2a)⊠ This action is FINAL . 2b)☐ This	This action is FINAL . 2b) This action is non-final.				
3) Since this application is in condition for allowan	nis application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims		•			
 4) ☐ Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-15 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or 					
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction and the original transfer of the correction is objected to by the Example 11).	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa				

DETAILED ACTION

Applicant's response was received and entered June 05, 2006.

Claims 1-15 are pending.

Response to Amendment

Applicant's arguments and amendments with respect to previously presented claims 1-15 filed June 05, 2006 have been fully considered but they are not persuasive. The Examiner would like to point out that this action is made final (See MPEP 706.07a).

Applicant contends, that Nishida et al. fails to teach or suggest error correction and hence it would not be obvious to store the digital transmission signal. The Examiner respectfully disagrees.

Nishida et al. clearly teaches a method and apparatus for error detection and correction as recited repeatedly in the specification: "It is an object of the present invention to provide code error detection/correction method and apparatus.....It is another object of the present invention to provide a code error detection/correction apparatus which can prevent harmful miscorrection without sacrificing the ability of the error detection/correction code" (column 4, lines 1-15). Nishida et al. clearly states that "Blocks 42 and 43 represent an encoding unit and a decoding unit in the transmitting station and the receiving station (or a recording unit and a reproducing unit), respectively, for the error detection and correction (columns 5-6, lines 61-5)." Hence, the blocks are already recording signals for reproduction of signals. Lastly, examiner would like to point out that applicant's claims do not recite that the storage unit should

be at a specific location, it merely recites "storing said digital transmission signal," which is clearly taught by Nishida et al. and Lovell et al.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nishida et al. US Pat no. 4,541,091.

As per claim 1:

Nishida et al. substantially teaches a method for generating a reference transmission signal for use in testing a communications system (Figure 4), comprising capturing a data packet transmission signal containing a plurality of reference data (Figure 4 # 25); digitizing said data packet transmission signal (Figure 4 # 26); retrieving at least a selected portion of said plurality of reference data from said digitized data packet transmission signal to produce a plurality of retrieved data (Figure 4, #27-31, column 5, lines 25-41); modulating a carrier signal with said plurality of retrieved data to produce a digital transmission signal (Figure 4 # 32, column 5, lines 35-42); and storing said digital transmission signal (Figure 4 # 28 & 38).

Nishida et al. discloses the claimed invention except for the location of the storing device is not after the modulator. It would have been obvious to one having ordinary skill in the art at the time the invention was made to add the "RAM" (Figure 4 # 28) after the "MODULATOR" (Figure 4 # 32), to store the modulated signal for reference in future error correction procedure, since it has been held that rearranging parts of an invention involves only routine skill in the art. In *re Japikse*, 86 USPQ 70.

As per claim 2:

Nishida et al. teaches the method of claim 1 as rejected above, wherein said capturing a data packet transmission signal containing a plurality of reference data

comprises receiving said data packet transmission signal as an analog signal (column 5, lines 25-30).

As per claim 3:

Nishida et al. teaches the method of claim 1 as rejected above, wherein said capturing a data packet transmission signal containing a plurality of reference data comprises receiving said data packet transmission signal as a wireless signal (Figure 4, # 33).

As per claim 4:

Nishida et al. teaches the method of claim 1 as rejected above, wherein said capturing a data packet transmission signal containing a plurality of reference data comprises receiving said data packet transmission signal as a wired signal (Figure 4, # 26).

As per claim 5:

Nishida et al. teaches the method of claim 1 as rejected above, wherein said retrieving at least a selected portion of said plurality of reference data from said digitized data packet transmission signal to produce a plurality of retrieved data comprises demodulating (Figure 4 # 34, column 5, lines 44-67) at least a selected portion of said digitized data packet transmission signal to produce a plurality of demodulated data.

As per claim 6:

Nishida et al. teaches the method of claim 1 as rejected above, wherein said retrieving at least a selected portion of said plurality of reference data from said digitized data packet transmission signal to produce a plurality of retrieved data comprises

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decoding at least a selected portion of said digitized data packet transmission signal to produce a plurality of decoded data (Figure 4 # 43, column 10, lines 5-23).

As per claim 7:

Nishida et al. teaches the method of claim 1 as rejected above, wherein said modulating a carrier signal with said plurality of retrieved data to produce a digital transmission signal comprises encoding said carrier signal with said plurality of retrieved data (column 5, lines 34-40).

As per claim 8:

Nishida et al. teaches the method of claim 1 as rejected above, wherein said storing said digital transmission signal comprises storing said digital transmission signal in memory (Figure 4, "RAM").

As per claim 9:

Nishida et al. teaches the method of claim 1 as rejected above, further comprising modifying one or more selected bits of said plurality of retrieved data prior to said modulating a carrier signal with said plurality of retrieved data to produce a digital transmission signal (column 6, lines 5-15).

As per claim 10:

Nishida et al. teaches the method of claim 1 as rejected above, further comprising: retrieving said stored digital transmission signal (column 6, lines 43-57); and frequency up-converting said retrieved digital transmission signal to produce said reference transmission signal (column 6, lines 57-68).

As per claim 11:

Nishida teaches the method of claim 10 as rejected above, further comprising modifying one or more selected bits of said plurality of retrieved data prior to said modulating a carrier signal with said plurality of retrieved data to produce a digital transmission signal (Figure 4 # 34, column 6, lines 5-15).

As per claims 12-15:

These claims are directed to a method of the system of Claims 1-11. Nishida et al. as stated above, teach the system as set forth in Claims 1-11. Therefore, Nishida et al. also teach, either alone or in combination as stated above, the apparatus as set forth in claims 12-15.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Claims 1 & 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Lovell at al. US Pat no. 6,831,945 B1.

As per claims 1 & 12:

Lovell et al. substantially teaches the method and apparatus for generating a reference transmission signal for use in testing a communications system (Figure 4), comprising capturing a data packet transmission signal containing a plurality of reference data (Abstract, lines 1-3); digitizing said data packet transmission signal (Figure 4 # 3); retrieving at least a selected portion of said plurality of reference data from said digitized data packet transmission signal to produce a plurality of retrieved data (Abstract, lines 7-13); modulating a carrier signal with said plurality of retrieved

data to produce a digital transmission signal (Figure 4 # 5); and storing said digital transmission signal (Figure 4 # 7 & 10).

Lovell et al. discloses the claimed invention except for the location of the modulator. It would have been obvious to one having ordinary skill in the art at the time the invention was made to change the location of the modulator, since it has been held that rearranging parts of an invention involves only routine skill in the art. In *re Japikse*, 86 USPQ 70.

Related Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Additional pertinent prior arts, US Pat no. (4703433, 6175939 B1, US 4507740 A, & US 4704734 A) mention the same method for generating a reference transmission signal using an A/D converter are included herein for Applicant's review.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to the final action is set to expire in THREE MONTH from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of the final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory

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action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Saqib J. Siddiqui whose telephone number is (571) 272-6553. The examiner can normally be reached on 8:00 to 4:30. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert Decady can be reached on (571) 272-3819. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Saqib Siddiqui Art Unit 2138 07/16/2006

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